

EPA Registration Number

228-737

# PROCESSING REQUEST

Reg #228-737

Decision #514939

Description:

Electronic Label & Letter  
(see PPLS):

OR

Non Electronic  
Label & Letter  
(Scanning required):

☐ Dated:

☐ Dated:

\*\*\*Only one label type should be selected\*\*\*

Other Materials Sent (see jacket):

☐ New CSF(s) Dated: basic & alt 1 9-26-16

☐ Other:

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: Erik Kraft

Division: RD

Phone: 308-9358

Date: 11-23-16



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

228-737

Date of Issuance:

11/23/16

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

NUP-15013 Fungicide

Name and Address of Registrant (include ZIP Code):

Nufarm Americas Inc.  
4020 Aerial Center Parkway  
Morrisville, NC 27560

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Erik Kraft, Acting Product Manager 24  
Fungicide and Herbicide Branch, Registration Division (7505P)

Date:

11/23/16

2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 228-737.”
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 9/26/16
- Alternate CSF 1 dated 9/26/16

If you have any questions, please contact Erik Kraft by phone at 703-308-9358, or via email at [kraft.erik@epa.gov](mailto:kraft.erik@epa.gov).

Enclosure

# NUP-15013 Fungicide

**[ABN: ArmorTech ROTATOR Fungicide]**

For use to control certain diseases of turf grasses on golf courses only.

**Active Ingredient:**

Fluazinam: 3-chloro-*N*-[3-chloro-2,6-dinitro-4-trifluoromethyl)phenyl]-5-trifluoromethyl-2-pyridinamine (CA)..... 40.0%

**Other Ingredients:**..... 60.0%

**Total:**..... 100.0%

Contains 4.17 pounds fluazinam per gallon (500 grams per liter)

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300

For Medical Emergencies Only, Call (877) 325-1840

**ACCEPTED**

11/23/2016

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under

EPA Reg. No. 228-737

EPA REG. NO. 228-xxx  
EPA EST. NO. \_\_\_\_\_

NUFARM AMERICAS INC.  
11901 S. Austin Avenue  
Alsip, IL 60803



NET CONTENTS \_\_\_\_\_ GAL. ( \_\_\_\_\_ Liters)

[Designation as "NONREFILLABLE" or "REFILLABLE" for containers > 5 GAL]

**[Nufarm: Grow a better tomorrow]**

**[Grow a better tomorrow]**

<b>FIRST AID</b>	
<b>IF ON SKIN</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
<b>NOTE TO PHYSICIAN</b> Probable mucosal damage may contraindicate the use of gastric lavage.	
<b>HOT LINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.	

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before use. Do not take internally.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Applicators and other handlers must wear:**

- Coveralls worn over long-sleeved shirt, long pants
- Chemical-resistant gloves made of any waterproof material (such as polyethylene or polyvinyl chloride).
- Protective eyewear
- Chemical resistant footwear and socks

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not allow contact of contaminated clothing with unprotected skin.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### Engineering Controls

When handlers use closed systems, or enclosed cabs, in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break down. Do not allow contact between contaminated sprayer parts and unprotected skin. Ensure sprayer is washed down daily.

## **USER SAFETY RECOMMENDATIONS**

### **Users Should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

## **Environmental Hazards**

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas.

## **Physical Chemical Hazards**

Combustible. Do not use or store near heat or open flame.

## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Failure to follow the use directions and precautions on this label may result in turf injury, poor disease control, and/or illegal residues. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

## **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Turf grasses on golf courses are not within the scope of the Worker Protection Standard.

**Do not enter treated areas until sprays have dried.**

## **PRODUCT INFORMATION**

This product is a broad spectrum fungicide for use to control diseases of turf grasses on golf courses only.

This product may be applied with all types of spray equipment normally used for ground applications on golf courses.

Apply this product in sufficient water to obtain adequate uniform coverage of the turf. Apply in a minimum spray volume of 50 gal of water per acre.

## **USE RESTRICTIONS**

- Do not apply this product to home lawns (turf) or any other residential turf
- Do not apply this product by aerial application
- Do not apply this product through any irrigation system
- Do not apply this product within 25 feet of permanent water bodies (lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, and estuaries)
- Do not apply this product when the wind direction is toward aquatic areas to minimize drift to these areas.
- Do not exceed 258 fl. oz. of this product (8.4 lbs. active ingredient) per acre per year.
- Do not apply more than twelve (12) applications at 21.5 fl. oz. per acre (0.5 fl. oz./1000 sq. ft.) per year.

## **USE PRECAUTIONS**

- Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions.
- Where states have more stringent regulations, they must be observed.

## **INTEGRATED PEST MANAGEMENT**

This product is an excellent disease control agent when used according to label directions for control of a broad spectrum of listed plant diseases. This product is for use in programs which are compatible with the principles of Integrated Pest Management (IPM), which may include the use of disease resistant crop varieties, cultural practices, biological control agents, pest scouting and disease forecasting systems aimed at preventing economic pest damage and reducing unnecessary applications of pesticides. Practices known to reduce disease development should be followed. Consult your state cooperative extension service or local agricultural authorities for additional IPM strategies established in your area. This product may be used in State Agricultural Extension advisory (disease forecasting) programs that recommend application timing based on environmental factors which favor disease development.

## **RESISTANCE MANAGEMENT**

Some plant pathogens are known to develop resistance to products used repeatedly for disease control. This product is effective for strategic use in fungicide disease management programs that attempt to minimize disease resistance to fungicides. This product has a multi-site mode of action that disrupts the energy production in the fungus. It is listed in FRAC code 29, as an uncoupler of oxidative phosphorylation. Some other fungicides, which are at risk from disease resistance, exhibit a single-site mode of fungicidal action. This product, with its multi-site mode of action, may be used to prevent or delay the development of resistance to single-site fungicides when used as a tank-mix partner or alternated in a disease management program.

This product has demonstrated excellent control of *Sclerotinia homeocarpa*, *Lanzia* and *Moellerodiscus* strains (causing Dollar Spot) that are insensitive to several classes of fungicides.

Consult with your Federal or State Cooperative Extension Service representatives for guidance on the proper use of this product in programs that seek to minimize the occurrence of disease resistance to other fungicides. This product is an excellent partner for those products that specify the use of a protectant or other fungicide that has a different mode of action.



## PLANT TOLERANCE

**NOTE TO USER:** Although this product has been evaluated on several turf species with no indication of phytotoxicity, neither the manufacturer nor seller has determined whether or not THIS PRODUCT can be used safely on all turf species. The professional user should determine if this product can be used safely prior to commercial use by testing on the type of turf to be treated as recommended rates for phytotoxicity.

## MIXING AND SPRAYING

This product can be used effectively in dilute sprays. Thorough, uniform coverage is essential for disease control.

**NOTE:** Slowly invert container several times to assure uniform mixture.

Prepare only the amount of spray mixture required for immediate use. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not allow spray mixture to stand overnight or for prolonged periods in the spray tank. Spraying equipment should be thoroughly cleaned immediately after the application.

**Product Alone:** Fill the spray tank with half of the required amount of water with the agitator running, add this product to the spray tank. Continue agitation while adding the remainder of the water. Begin application of the solution after this product has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

**Tank Mixtures:** This product is physically compatible with many products recommended for control of diseases, liquid fertilizers, growth regulators, insecticides and biological control products. If tank mixes are desired, read and follow all directions, precautions, and limitations on labeling of all products used. This product must not be mixed with any product which prohibits such mixing. It is the applicator's responsibility to ensure that the companion product is EPA approved for use on the intended site. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

This product is generally compatible with the products mentioned above, provided sufficient free water is available for dispersion of all the tank mix products. However, the physical compatibility of this product with tank mix partners should be evaluated before use. A jar test should be conducted with the intended tank-mix products prior to preparation of large volumes. Use the following procedure:

### Jar Compatibility Test:

1. Pour the recommended proportions of the products into a suitable container of water;
2. Mix thoroughly; and
3. Allow to stand for 5 minutes.

If the combination remains mixed or can be re-mixed readily, it is considered physically compatible. Any physical incompatibility in the jar test indicates that this product should not be used in the tank mix.

Consult compatibility charts or your local or state agricultural authorities for additional compatibility information.

### To prepare spray solution:

- Add ½ of the required amount of water to the mix/sprayer tank
- Start the agitator running before adding any tank mix partners.
- Add the tank mix partners in the following order:
  - Products packaged in water-soluble packaging;
  - Wettable powders;
  - Wettable granules (dry flowables);
  - Liquid flowables (such as this product);
  - Liquids; and
  - Emulsifiable concentrates
- Always allow each tank mix partner to become fully dispersed before adding the next product.

- Provide sufficient agitation while adding the remainder of the water.
- Maintain agitation until all of the mixture has been applied.
- When using this product in tank mixtures, add all products in water-soluble packaging to the tank before any other tank mix partner, including this product.
- Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.
- Use a pump with capacity to maintain the correct rated pressure for the nozzles selected.
- Maintain sufficient agitation to keep mixture in suspension.
- Use a jet agitator, liquid sparge tube, or mechanical paddle for agitation.
- Use screens to prevent nozzles from clogging. Use 50-mesh or coarser screens placed after the tank and before the nozzles. Check nozzle manufacturer's recommendations.
- For more information on spray equipment and calibration, consult sprayer manufacturers and state recommendations.

## TURFGRASS DISEASE CONTROL

1. Use this product in a Preventative Disease Control Program.
2. Apply in sufficient water to ensure thorough coverage.
3. Apply after mowing or allow sprayed area to completely dry before mowing.
4. For control of foliar diseases, allow sprayed area to completely dry before irrigation.
5. For optimum turf quality and disease control, use this product in conjunction with turf management practices that promote good plant health and optimum disease control.
6. Evaluate spray additives prior to use. Label directions are based on data obtained with no additives.
7. Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.

USE RATE			
Diseases Controlled Pathogen(s)	Application Interval (days)	Rate fl. oz. product/1000 sq. ft.	Instructions for Use on Golf Course Tees, Greens, Fairways and Roughs
Dollar Spot <i>Sclerotinia homeocarpa</i> <i>Lanzia</i> spp. <i>Moellerodiscus</i> spp.	14	0.5	Apply as a preventative disease program, starting when conditions become favorable for disease. For broad spectrum disease control or for control greater than 14 days, tank mix with the labeled rate of another fungicide labeled for control of this disease, such as Torque™, Tourney® or Strider™.
Leaf spot, Melting-out, Brown blight <i>Drechslera</i> spp. (including <i>D. poae</i> , <i>D. siccans</i> )	14	0.5	Apply when conditions become favorable for disease. For broad spectrum disease control tank mix with the labeled rate of another fungicide labeled for control of these diseases, such as Torque, Tourney, Affirm™ or Strider.
Brown patch Large patch <i>Rhizoctonia solani</i>	14	0.5	Begin applications in May or June before disease is present for Brown patch. To control Large patch, apply in fall when temperature drops below 70°F. For broad spectrum control or for control greater than 14 days, tank mix with the labeled rate of another fungicide labeled for control of these diseases, such as Torque, Tourney, Affirm or Strider.
Red Thread <i>Laetisaria fuciformis</i>	14	0.5	Apply when conditions become favorable for disease.
Anthracnose <i>Colletotrichum cereal</i>	14	0.5	Applications should be made prior to infection. Alternate or tank mix this product with another fungicide for anthracnose disease prevention. This product should be tank mixed with the labeled rate of another fungicide labeled for control of this disease, such as Torque, Tourney, Affirm or Strider.
Gray Snow Mold <i>Typhula</i> spp.  Pink Snow Mold <i>Microdochium nivale</i>	Late Fall	0.5	Apply one to two applications in the late fall before snow cover. Do not apply on top of the snow. For optimum disease control, tank mix with the labeled rate of another fungicide labeled for control of these diseases, such as Torque, Tourney, Strider or 26/36®.
Pink patch <i>Microdochium nivale</i>	14	0.5	Apply in the fall or early spring when conditions are favorable for disease development. For optimum disease control, tank mix with the labeled rate of another fungicide labeled for control of this disease, such as Torque, Tourney, 26/36, 3336® or Strider.
Stem rust <i>Puccinia graminis</i> var. <i>graminicola</i>	14	0.5	Apply on a preventative schedule when disease conditions are favorable (cool and cloudy weather).
Algal scum (filamentous blue-green algae/cyanobacteria)	14	0.5	This product should be tank mixed with another fungicide labeled for control of this disease, such as Protect™ DF.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container, in a secured, cool, dry place separate from food and feed. **DO NOT** store near heat or open flame.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER HANDLING:

**[Note to Reviewer:** The following statement will be included on all Final Printed Labels bearing multiple Container Disposal (Container Handling) statements] **"NOTE:** This product is available in multiple containers. Refer to the Net Contents section of this products labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container disposal [handling] instructions below that apply to your container type / size."

#### **[Nonrefillable Containers 5 Gallons or Less]**

**Nonrefillable container. DO NOT** reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration.

#### **[Nonrefillable containers larger than 5 gallons]**

**Nonrefillable container. DO NOT** reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

#### **WARRANTY DISCLAIMER**

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

#### **LIMITATION OF LIABILITY**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

**If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.**

(RV112216)

Torque, Affirm, Strider are trademarks of Nufarm Americas, Inc.  
26/36, 3336 are registered trademarks of Nufarm Americas, Inc.  
Tourney is a registered trademark of Valent, USA Corporation  
[All other trademarks are the property of their respective owners]

**Optional Marketing Language:**

**[Nufarm: Grow a better tomorrow]**

**[Grow a better tomorrow]**

[ArmorTech ROTATOR Fungicide]

[ArmorTech ZOXY-T]

[ArmorTech TEB 360 XL]

[ArmorTech PPZ 143 MC]

[ArmorTech ZOXY 2 SC]

[ArmorTech CLT 720]

[ArmorTech CLT 825]

[ArmorTech TMI 2020 XL]

[All other trademarks are the property of their respective owners]



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460


Form Approved OMB No. 2070-0060

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**DATA MATRIX**

Date November 22, 2016	EPA Reg. No./File Symbol 228-TGT	Page 1 of 7
Nufarm Americas, Inc. 4020 Aerial Center Parkway Morrisville, NC 27560	Product: NUP-15013 Fungicide	
Ingredient: Fluazinam (PC Code 129098)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter (EPA CO#)	Status	Note
<b>SERIES 830</b>	<b>SUBDIVISION D: PRODUCT PROPERTIES TEST GUIDELINES</b>				
	<b>Series 61 Data Requirements</b>				
830.1550 / 61-1	Product Identity and Composition	49608501	NUFARM	OWN	
830.1600 / 61-2	Description of the Materials Used to Produce the Product	49608501	NUFARM	OWN	
830.1650 / 61-2	Description of the Production Process	49608501	NUFARM	OWN	
830.1670 / 61-3	Discussion of Formation of Impurities	49608501	NUFARM	OWN	
	<b>Series 62 Data Requirements</b>				
830.1700 / 62-1	Preliminary Analysis	49608501	NUFARM	OWN	
830.1750 / 62-2	Certified Limits	49608501	NUFARM	OWN	
830.1800 / 62-3	Enforcement Analytical Method	49608501	NUFARM	OWN	
	<b>Series 63 (Phys/Chem Properties) Data Requirements</b>				
830.6302 / 63-2	Color	49608502	NUFARM	OWN	
830.6303 / 63-3	Physical State	49608502	NUFARM	OWN	
830.6304 / 64-4	Odor	49608502	NUFARM	OWN	
830.6313 / 63-13	Stability to normal / elevated temperatures, metals and metal ions	49608502	NUFARM	OWN	
830.6315 / 63-15	Flammability	49608502	NUFARM	OWN	
830.6320 / 63-20	Corrosion Characteristics	49608502	NUFARM	OWN	
830.7100 / 63-18	Viscosity	49608502	NUFARM	OWN	

Signature 	Name and Title: Carrie M. Tackema, Regulatory Manager	Date 11/22/2016
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401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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**DATA MATRIX**

Date	November 22, 2016	EPA Reg. No./File Symbol	228-TGT	Page 2 of 7
Nufarm Americas, Inc. 4020 Aerial Center Parkway Morrisville, NC 27560		Product: NUP-15013 Fungicide		
Ingredient: Fluazinam (PC Code 129098)				

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter (EPA CO#)	Status	Note
<b>SERIES 830</b>	<b>SUBDIVISION D: PRODUCT PROPERTIES TEST GUIDELINES</b>				
830.7300 / 63-7	Density, Bulk Density, Specific Gravity	49608502	NUFARM	OWN	
830.7000 / 63-12	pH	49608502	NUFARM	OWN	
<b>SERIES 835</b>	<b>SUBDIVISION N: ENVIRONMENTAL FATE TEST GUIDELINES</b>				
	<b>Degradation Data Requirements</b>				
835.2120 / 161-1	Hydrolysis	42208412	71512	OLD	
835.2240 / 161-2	Aqueous Photolysis	44807312	71512	OLD	
835.2240 / 161-2	Aqueous Photolysis	43521009	71512	OLD	
835.2240 / 161-2	Aqueous Photolysis	45584204	71512	OLD	
835.2410 / 161-3	Soil Photolysis	42208413	71512	OLD	
835.2410 / 161-3	Soil Photolysis	44807313	71512	OLD	
835.2410 / 161-3	Soil Photolysis	45584204	71512	OLD	
	<b>Metabolism Data Requirements</b>				
835.4100 / 162-1	Aerobic Soil Metabolism	42208413	71512	OLD	
835.4100 / 162-1	Aerobic Soil Metabolism	42208414	71512	OLD	
835.4200 / 162-3	Anaerobic Soil Metabolism	42208413	71512	OLD	
835.4200 / 162-3	Anaerobic Soil Metabolism	42208414	71512	OLD	

Signature

Name and Title:

Carrie M. Tackema, Regulatory Manager

Date

11/22/2016





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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter (EPA CO#)	Status	Note
<b>SERIES 830</b>	<b>SUBDIVISION D: PRODUCT PROPERTIES TEST GUIDELINES</b>				
835.4300 / 162-4	Aerobic Aquatic Metabolism	44807314	71512	OLD	
835.4400 / 162-3	Anaerobic Aquatic Metabolism	43521010	71512	OLD	
	<b>Mobility Data Requirements</b>				
835.1230 / 163-1	Adsorption/Desorption	42248628	71512	OLD	
835.1230 / 163-1	Adsorption/Desorption	42974913	71512	OLD	
835.1230 / 163-1	Adsorption/Desorption	43528201	71512	OLD	
835.1230 / 163-1	Adsorption/Desorption	44807315	71512	OLD	
835.1240	Leaching Studies	42208415	71512	OLD	
	<b>Dissipation Data Requirements</b>				
835.6100 / 164-1	Terrestrial Field Dissipation (Turf)	48361521	71512	PAY	
835.6100 / 164-1	Terrestrial Field Dissipation (Turf)	48361522	71512	PAY	
835.6100 / 164-1	Terrestrial Field Dissipation (Turf)	48361523	71512	PAY	
835.6100 / 164-1	Environmental Chemistry Methods & ILV (Soil, Water, Sediment)	48361519	71512	PAY	
835.6100 / 164-1	Environmental Chemistry Methods & ILV (Soil, Water, Sediment)	48361520	71512	PAY	
835.6100 / 164-1	Environmental Chemistry Methods & ILV (Soil, Water, Sediment)	48632401	71512	PAY	
835.6100 / 164-1	Environmental Chemistry Methods & ILV (Soil, Water, Sediment)	48635801	71512	PAY	
835.6100 / 164-1	Environmental Chemistry Methods & ILV (Soil, Water, Sediment)	48635802	71512	PAY	

Signature 	Name and Title: Carrie M. Tackema, Regulatory Manager	Date 11/22/2016
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Ingredient: Fluazinam (PC Code 129098)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter (EPA CO#)	Status	Note
<b>SERIES 850</b>	<b>SUBDIVISION E: ECOLOGICAL EFFECTS TEST GUIDELINES</b>				
	<b>Aquatic Organism Toxicity Data Requirements</b>				
850.1075 / 72-1(a)	TGAI- Freshwater Fish LC <sub>50</sub> (Bluegill)	42974905	71512	OLD	
850.1075 / 72-1(c)	TGAI- Freshwater Fish LC <sub>50</sub> (Rainbow Trout)	42974904	71512	OLD	
850.1010 / 72-1	TGAI- Acute LC <sub>50</sub> Invertebrate (Daphnia)	42208410	71512	OLD	
850.1075 / 72-3(a)	TGAI- Acute LC <sub>50</sub> Estuarine Organism (Sheepshead Minnow)	44807326	71512	OLD	
850.1025 / 72-3(b)	TGAI- Acute LC <sub>50</sub> Estuarine Organism (Eastern Oyster)	44807324	71512	OLD	
	<b>Nontarget Plant Toxicity Data Requirements</b>				
850.4100 / 122-1(a)	TGAI- Seedling Emergence	46172801	71512	PAY	
850.4150 / 122-1(b)	TGAI- Vegetative Vigor	48708701	71512	PAY	
850.4400 / 123-2	TGAI- Aquatic Plant Toxicity Test (Lemna)	48571402	71512	PAY	
850.4500	TGAI – Algal Toxicity (Selenastrum)	44807334	71512	OLD	
850.4500	TGAI – Algal Toxicity (Skeletonema)	48612301	71512	PAY	

Signature

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Ingredient: Fluazinam (PC Code 129098)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter (EPA CO#)	Status	Note
<b>SERIES 860</b>	<b>SUBDIVISION O: RESIDUE CHEMISTRY TEST GUIDELINES</b>				
860.1380 / 171-4e	Storage Stability Data- Soils	44807316	71512	OLD	
860.1380 / 171-4e	Storage Stability Data- Soils	48361518	71512	PAY	
<b>SERIES 870</b>	<b>SUBDIVISION F: HEALTH EFFECTS TEST GUIDELINES</b>				
	<b>Acute Toxicity Data Requirements</b>				
870.1100 / 81-1	TGAI- Acute Oral Toxicity (RAT)	496080503	NUFARM	OWN	
870.1200 / 81-2	TGAI- Acute Dermal Toxicity	496080504	NUFARM	OWN	
870.1300 / 81-3	TGAI- Acute Inhalation Toxicity	496080505	NUFARM	OWN	
870.2400 / 81-4	TGAI- Primary Eye Irritation	49608506	NUFARM	OWN	
870.2500 / 81-5	TGAI- Primary Skin Irritation	49608507	NUFARM	OWN	
870.2600 / 81-6	TGAI- Skin Sensitization	49608508	NUFARM	OWN	

Signature 	Name and Title: Carrie M. Tackema, Regulatory Manager	Date 11/22/2016
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Nufarm Americas, Inc. 4020 Aerial Center Parkway Morrisville, NC 27560		Product: NUP-15013 Fungicide		
Ingredient: Fluazinam (PC Code 129098)				

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter (EPA Co. #)	Status	Note
<b>SERIES 875</b>	<b>APPLICATOR &amp; POST-APPLICATION EXPOSURE DATA REQUIREMENTS</b>				
875.1100	Applicator Dermal Exposure – Outdoor	CITE ALL		OWN	Footnote 1
875.1200	Applicator Dermal Exposure – Indoor	CITE ALL		OWN	Footnote 1
875.1300	Applicator Inhalation – Outdoor	CITE ALL		OWN	Footnote 1
875.1400	Applicator Inhalation Exposure – Indoor	CITE ALL		OWN	Footnote 1
875.2100	Foliar Dislodgeable Residue Dissipation (Turf)	48361527	71512	PAY	
875.2400	Post-Application Dermal Exposure	CITE ALL		OWN	Footnote 1
875.2500	Post-Application Inhalation Exposure	CITE ALL		OWN	Footnote 1
<b>FOOTNOTES</b>					
1. Nufarm is a member of the Spray Drift Task Force, Outdoor Residential Exposure Task Force, Agricultural Reentry Task Force, and Agricultural Handlers Exposure Task Force.					

Signature

Name and Title:

Carrie M. Tackema, Regulatory Manager

Date

11/22/2016



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Ingredient: Fluazinam (PC Code 129098)				

**ALL REMAINING DATA REQUIREMENTS**

Addressed through Formulator's Exemption Statement

Signature 	Name and Title: Carrie M. Tackema, Regulatory Manager	Date 11/22/2016
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## Kraft, Erik

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**From:** Kraft, Erik  
**Sent:** Monday, November 21, 2016 3:23 PM  
**To:** 'carrie.tackema@us.nufarm.com'  
**Subject:** Nup-15013 fungicide

Carrie,

Please make the following label changes:

1. Change the Signal word to Caution
2. Change the Hazards to Humans and Domestic Animals to "Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."
3. You may delete "if in eyes" language.
4. Add physical chemical hazard statement "Combustible. Do not use or store near heat or open flame".
5. Delete "Some materials... category selection chart"
6. Delete "when mixing and loading...HE filter"
7. Separate out use restrictions from precautions into their own sections

To the data matrix where you are citing all add all the companies except for ones with just an "X" under PC. Including the task forces as well.

Thanks  
Erik



# NUP-15013 Fungicide

**[ABN: ArmorTech ROTATOR Fungicide]**

For use to control certain diseases of turf grasses on golf courses only.

**Active Ingredient:**

Fluazinam: 3-chloro-*N*-[3-chloro-2,6-dinitro-4-trifluoromethyl)phenyl]-5-trifluoromethyl-2-pyridinamine (CA)..... 40.0%

**Other Ingredients:**..... 60.0%

**Total:**..... 100.0%

Contains 4.17 pounds fluazinam per gallon (500 grams per liter)

**KEEP OUT OF REACH OF CHILDREN**

## **WARNING/AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

**For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300**

**For Medical Emergencies Only, Call (877) 325-1840**

EPA REG. NO. 228-xxx  
EPA EST. NO. \_\_\_\_\_

NUFARM AMERICAS INC.  
11901 S. Austin Avenue  
Alsip, IL 60803



NET CONTENTS \_\_\_\_\_ GAL. ( \_\_\_\_\_ Liters)

[Designation as "NONREFILLABLE" or "REFILLABLE" for containers > 5 GAL]

**[Nufarm: Grow a better tomorrow]**

**[Grow a better tomorrow]**

<b>FIRST AID</b>	
<b>IF ON SKIN</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
<b>NOTE TO PHYSICIAN</b> Probable mucosal damage may contraindicate the use of gastric lavage.	
<b>HOT LINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.	

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING/AVISO:** Causes skin irritation. Harmful if absorbed through skin. Causes moderate eye irritation. Harmful if inhaled or swallowed. Do not get on skin or on clothing. Avoid contact with eyes. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before use. Do not take internally.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

#### Applicators and other handlers must wear:

- Coveralls worn over long-sleeved shirt, long pants
- Chemical-resistant gloves made of any waterproof material (such as polyethylene or polyvinyl chloride).
- Protective eyewear
- Chemical resistant footwear and socks

When mixing and loading, or when cleaning equipment, also wear a chemical resistant apron. Mixer/loaders must wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with an N, R, P, or HE filter.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not allow contact of contaminated clothing with unprotected skin.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.



## Engineering Controls

When handlers use closed systems, or enclosed cabs, in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break down. Do not allow contact between contaminated sprayer parts and unprotected skin. Ensure sprayer is washed down daily.

### USER SAFETY RECOMMENDATIONS

#### Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

## Environmental Hazards

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Failure to follow the use directions and precautions on this label may result in turf injury, poor disease control, and/or illegal residues. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Turf grasses on golf courses are not within the scope of the Worker Protection Standard.

**Do not enter treated areas until sprays have dried.**

## PRODUCT INFORMATION

This product is a broad spectrum fungicide for use to control diseases of turf grasses on golf courses only.

This product may be applied with all types of spray equipment normally used for ground applications on golf courses.

Apply this product in sufficient water to obtain adequate uniform coverage of the turf. Apply in a minimum spray volume of 50 gal of water per acre.

## **USE RESTRICTIONS AND PRECAUTIONS**

- Do not apply this product to home lawns (turf) or any other residential turf
- Do not apply this product by aerial application
- Do not apply this product through any irrigation system
- Do not apply this product within 25 feet of permanent water bodies (lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, and estuaries)
- Do not apply this product when the wind direction is toward aquatic areas to minimize drift to these areas.
- Do NOT exceed 258 fl. oz. of this product (8.4 lbs. active ingredient) per acre per year.
- DO NOT apply more than twelve (12) applications at 21.5 fl. oz. per acre (0.5 fl. oz./1000 sq. ft.) per year.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. Where states have more stringent regulations, they must be observed.

## **INTEGRATED PEST MANAGEMENT**

This product is an excellent disease control agent when used according to label directions for control of a broad spectrum of listed plant diseases. This product is for use in programs which are compatible with the principles of Integrated Pest Management (IPM), which may include the use of disease resistant crop varieties, cultural practices, biological control agents, pest scouting and disease forecasting systems aimed at preventing economic pest damage and reducing unnecessary applications of pesticides. Practices known to reduce disease development should be followed. Consult your state cooperative extension service or local agricultural authorities for additional IPM strategies established in your area. This product may be used in State Agricultural Extension advisory (disease forecasting) programs that recommend application timing based on environmental factors which favor disease development.

## **RESISTANCE MANAGEMENT**

Some plant pathogens are known to develop resistance to products used repeatedly for disease control. This product is effective for strategic use in fungicide disease management programs that attempt to minimize disease resistance to fungicides. This product has a multi-site mode of action that disrupts the energy production in the fungus. It is listed in FRAC code 29, as an uncoupler of oxidative phosphorylation. Some other fungicides, which are at risk from disease resistance, exhibit a single-site mode of fungicidal action. This product, with its multi-site mode of action, may be used to prevent or delay the development of resistance to single-site fungicides when used as a tank-mix partner or alternated in a disease management program.

This product has demonstrated excellent control of *Sclerotinia homeocarpa*, *Lanzia* and *Moellerodiscus* strains (causing Dollar Spot) that are insensitive to several classes of fungicides.

Consult with your Federal or State Cooperative Extension Service representatives for guidance on the proper use of this product in programs that seek to minimize the occurrence of disease resistance to other fungicides. This product is an excellent partner for those products that specify the use of a protectant or other fungicide that has a different mode of action.

## PLANT TOLERANCE

**NOTE TO USER:** Although this product has been evaluated on several turf species with no indication of phytotoxicity, neither the manufacturer nor seller has determined whether or not THIS PRODUCT can be used safely on all turf species. The professional user should determine if this product can be used safely prior to commercial use by testing on the type of turf to be treated as recommended rates for phytotoxicity.

## MIXING AND SPRAYING

This product can be used effectively in dilute sprays. Thorough, uniform coverage is essential for disease control.

**NOTE:** Slowly invert container several times to assure uniform mixture.

Prepare only the amount of spray mixture required for immediate use. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not allow spray mixture to stand overnight or for prolonged periods in the spray tank. Spraying equipment should be thoroughly cleaned immediately after the application.

**Product Alone:** Fill the spray tank with half of the required amount of water with the agitator running, add this product to the spray tank. Continue agitation while adding the remainder of the water. Begin application of the solution after this product has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

**Tank Mixtures:** This product is physically compatible with many products recommended for control of diseases, liquid fertilizers, growth regulators, insecticides and biological control products. If tank mixes are desired, read and follow all directions, precautions, and limitations on labeling of all products used. This product must not be mixed with any product which prohibits such mixing. It is the applicator's responsibility to ensure that the companion product is EPA approved for use on the intended site. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

This product is generally compatible with the products mentioned above, provided sufficient free water is available for dispersion of all the tank mix products. However, the physical compatibility of this product with tank mix partners should be evaluated before use. A jar test should be conducted with the intended tank-mix products prior to preparation of large volumes. Use the following procedure:

### Jar Compatibility Test:

1. Pour the recommended proportions of the products into a suitable container of water;
2. Mix thoroughly; and
3. Allow to stand for 5 minutes.

If the combination remains mixed or can be re-mixed readily, it is considered physically compatible. Any physical incompatibility in the jar test indicates that this product should not be used in the tank mix.

Consult compatibility charts or your local or state agricultural authorities for additional compatibility information.

### To prepare spray solution:

- Add ½ of the required amount of water to the mix/sprayer tank
- Start the agitator running before adding any tank mix partners.
- Add the tank mix partners in the following order:
  - Products packaged in water-soluble packaging;
  - Wettable powders;
  - Wettable granules (dry flowables);
  - Liquid flowables (such as this product);
  - Liquids; and
  - Emulsifiable concentrates
- Always allow each tank mix partner to become fully dispersed before adding the next product.

- Provide sufficient agitation while adding the remainder of the water.
- Maintain agitation until all of the mixture has been applied.
- When using this product in tank mixtures, add all products in water-soluble packaging to the tank before any other tank mix partner, including this product.
- Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.
- Use a pump with capacity to maintain the correct rated pressure for the nozzles selected.
- Maintain sufficient agitation to keep mixture in suspension.
- Use a jet agitator, liquid sparge tube, or mechanical paddle for agitation.
- Use screens to prevent nozzles from clogging. Use 50-mesh or coarser screens placed after the tank and before the nozzles. Check nozzle manufacturer's recommendations.
- For more information on spray equipment and calibration, consult sprayer manufacturers and state recommendations.

## TURFGRASS DISEASE CONTROL

1. Use this product in a Preventative Disease Control Program.
2. Apply in sufficient water to ensure thorough coverage.
3. Apply after mowing or allow sprayed area to completely dry before mowing.
4. For control of foliar diseases, allow sprayed area to completely dry before irrigation.
5. For optimum turf quality and disease control, use this product in conjunction with turf management practices that promote good plant health and optimum disease control.
6. Evaluate spray additives prior to use. Label directions are based on data obtained with no additives.
7. Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.

USE RATE			
Diseases Controlled Pathogen(s)	Application Interval (days)	Rate fl. oz. product/1000 sq. ft.	Instructions for Use on Golf Course Tees, Greens, Fairways and Roughs
Dollar Spot <i>Sclerotinia homeocarpa</i> <i>Lanzia</i> spp. <i>Moellerodiscus</i> spp.	14	0.5	Apply as a preventative disease program, starting when conditions become favorable for disease. For broad spectrum disease control or for control greater than 14 days, tank mix with the labeled rate of another fungicide labeled for control of this disease, such as Torque™, Tourney® or Strider™.
Leaf spot, Melting-out, Brown blight <i>Drechslera</i> spp. (including <i>D. poae</i> , <i>D. siccans</i> )	14	0.5	Apply when conditions become favorable for disease. For broad spectrum disease control tank mix with the labeled rate of another fungicide labeled for control of these diseases, such as Torque, Tourney, Affirm™ or Strider.
Brown patch Large patch <i>Rhizoctonia solani</i>	14	0.5	Begin applications in May or June before disease is present for Brown patch. To control Large patch, apply in fall when temperature drops below 70°F. For broad spectrum control or for control greater than 14 days, tank mix with the labeled rate of another fungicide labeled for control of these diseases, such as Torque, Tourney, Affirm or Strider.
Red Thread <i>Laetisaria fuciformis</i>	14	0.5	Apply when conditions become favorable for disease.
Anthrachnose <i>Colletotrichum cereal</i>	14	0.5	Applications should be made prior to infection. Alternate or tank mix this product with another fungicide for anthracnose disease prevention. This product should be tank mixed with the labeled rate of another fungicide labeled for control of this disease, such as Torque, Tourney, Affirm or Strider.
Gray Snow Mold <i>Typhula</i> spp.  Pink Snow Mold <i>Microdochium nivale</i>	Late Fall	0.5	Apply one to two applications in the late fall before snow cover. Do not apply on top of the snow. For optimum disease control, tank mix with the labeled rate of another fungicide labeled for control of these diseases, such as Torque, Tourney, Strider or 26/36®.
Pink patch <i>Microdochium nivale</i>	14	0.5	Apply in the fall or early spring when conditions are favorable for disease development. For optimum disease control, tank mix with the labeled rate of another fungicide labeled for control of this disease, such as Torque, Tourney, 26/36, 3336® or Strider.
Stem rust <i>Puccinia graminis</i> var. <i>graminicola</i>	14	0.5	Apply on a preventative schedule when disease conditions are favorable (cool and cloudy weather).
Algal scum (filamentous blue-green algae/cyanobacteria)	14	0.5	This product should be tank mixed with another fungicide labeled for control of this disease, such as Protect™ DF.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container, in a secured, cool, dry place separate from food and feed. **DO NOT** store near heat or open flame.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER HANDLING:

**[Note to Reviewer:** The following statement will be included on all Final Printed Labels bearing multiple Container Disposal (Container Handling) statements] **"NOTE:** This product is available in multiple containers. Refer to the Net Contents section of this products labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container disposal [handling] instructions below that apply to your container type / size."

#### **[Nonrefillable Containers 5 Gallons or Less]**

**Nonrefillable container. DO NOT** reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration.

#### **[Nonrefillable containers larger than 5 gallons]**

**Nonrefillable container. DO NOT** reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

#### **WARRANTY DISCLAIMER**

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

#### **LIMITATION OF LIABILITY**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

**If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.**

(RV030216)

Torque, Affirm, Strider are trademarks of Nufarm Americas, Inc.  
26/36, 3336 are registered trademarks of Nufarm Americas, Inc.  
Tourney is a registered trademark of Valent, USA Corporation  
[All other trademarks are the property of their respective owners]

**Optional Marketing Language:**

**[Nufarm: Grow a better tomorrow]**

**[Grow a better tomorrow]**

[ArmorTech ROTATOR Fungicide]

[ArmorTech ZOXY-T]

[ArmorTech TEB 360 XL]

[ArmorTech PPZ 143 MC]

[ArmorTech ZOXY 2 SC]

[ArmorTech CLT 720]

[ArmorTech CLT 825]

[ArmorTech TMI 2020 XL]

[All other trademarks are the property of their respective owners]





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

**FEE**

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS  
REGISTRATION DIVISION (7505P)

**DOCUMENT CONTAINS CONFIDENTIAL INFORMATION**

DP BAR CODE NO.: 436491  
PC Code: 129098  
FOOD Use: NO

EPA File Symbol NO.: 228-TGT  
ACTION CODE: R333.2

DECISION NO.: 514939

DATE OUT: November 2, 2016

SUBJECT: End Use Product Chemistry Review  
Product Name: NUP-15013- Fungicide

FROM: Hari Mukhoty, DVM, PhD.  
Product Chemistry Team  
CITAB / Registration Division (7505P)

*Handwritten signatures and initials: jhm, SBM, 11.3.16*

TO: Erik Craft, RMR / Erik Craft, RM 24  
Fungicide & Herbicide Branch / Registration Division (7505P)

Company Name: Nufarm Americas, Inc.

**INTRODUCTION:**

The product chemistry data for the aforesaid product with EPA File Symbol No.: 228-TGT were reviewed on 09/20/2016. In that review, Product chemistry Group A data were found to be acceptable. Product chemistry Group B data, with the exception of Oxidation/Reduction data (830.6314), were found to be acceptable on 09/29/2016.

The registrant now has submitted the Oxidation / Reduction data under MRID 500929-01.

CITAB has been requested to evaluate the aforesaid guideline data for registration of the subject product.

**SUMMARY OF FINDINGS:**

1. Name of Active Ingredient(s): Fluazinam (40%).
2. Has the registrant claimed substantial similarity to registered product?  
[ ] Yes [ X ] No [ ] NA If yes: EPA Reg. No.
3. The source materials of the active ingredients are registered with the Agency [Yes].
4. The CSF has been screened by inert group and they found that inerts are approved for non-food use.

DP BAR CODE NO.: 436491  
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5. Confidential Statement of Formula(s):

☒ Basic - Dated: 09/26/2016 Re-submitted: Yes (First submission CSF:01/12/2016)  
☒ Alternate - Dated: " Re-submitted: NA (2<sup>nd</sup> submission:CSF: 9/26/16)

Alternate CSF(s) complies with 40CFR §152.43: ☒ Yes ☐ No NA ☐

6. Product label

a. Ingredient statement: Nominal concentrations of AI listed on CSF(s) concur with product label (PR Notice 91-2). The label claim falls within the certified limits of the active in the CSF.

☐ Yes ☒ No

Is the sub statement in compliance with PR Notice 97-6?

☒ Yes ☐ No - Uses the term "Other Ingredients"

, if not, explain below:

Metallic equivalent: ☐ Yes ☒ NA  
Soluble arsenic: ☐ Yes ☒ NA  
Isomeric ratios: ☐ Yes ☒ NA  
Acid equivalent: ☐ Yes ☒ NA

b. Health related sub statements:

Petroleum distillate at > 10%: ☐ Yes ☐ No ☒ NA  
Methanol at > 4%: ☐ Yes ☐ No ☒ NA  
Sodium Nitrate / Sodium Nitrite ☐ Yes ☐ No ☒ NA

c. Physical chemical hazard statement: Product label requires a statement per 40 CFR §156.78 for: flammability, explosive potential or electric insulator breakdown?

☒ Yes ☐ No The label should contain a statement: "Combustible. Do not use or store near heat or open flame".

Total Release Fogger PR Notice 98-6 (40 CFR 156.78 d): ☐ Yes ☒ No ☐ NA

d. Label requires an additional Storage and Disposal statement: ☐ Yes ☒ No

Final decision of overall label acceptance will be made by the PM.

DP BAR CODE NO.: 436491  
PC Code: 129098  
FOOD Use: NO

EPA File Symbol NO.: 228-TGT  
ACTION CODE: R333.2

DECISION NO.: 514939

7. Group A: Product Chemistry Data

CITAB's determination of the acceptability of the data for the proposed product is listed in the tables below.

Guideline No.	Study Title		Data submitted		CITAB's Assessment of Data	MRID Nos.
			Yes	No		
830.1550	Product Identity & Composition		X		A	496085-01
830.1600	Description of materials used to produce the product		X	"	A	"
830.1650	Description of formulation process		X	"	A	"
830.1670	Discussion on the formation of impurities		X		A	"
830.1700	Preliminary analysis			NR	NR	
830.1750	Certified limits (158.350)	Standard certified limits	X		A	See CSFs dated 09/26/2016 / CLs are standard & proposed (wider for some inerts)
		Proposed Limits				
		Justification for wider limits				
830.1800	Enforcement analytical method #		X		A	See MRID: 496085-01, Page 104.

A = Acceptance, NR = Not Required, G = Data Gap,

W = Waiver Request, I = In Progress, NA = Not Acceptable

# Analytical Method: The method used was HPLC using UV detector set at 236 nm. Validation data have been submitted for accuracy, precision and linearity (MRID: 496085-01 / Page 105).

DP BAR CODE NO.: 436491  
PC Code: 129098  
FOOD Use: NO

EPA File Symbol NO.: 228-TGT  
ACTION CODE: R333.2

DECISION NO.: 514939

8. Group B:

Guideline No.	Study Title	Value or Qualitative Description	CITAB's Assessment of Data	MRID Nos.
830.6303	Physical State	Viscous Opaque Liquid	A	496085-02
830.6314	Oxidation/reduction	No such properties (re-submitted)	A	500929-01
830.6315	Flammability	Flash Point not lower than 62 °C.	A	496085-02
830.6316	Explosibility	Does not contain potentially explosive material.	A	"
830.6317	Storage stability	Stable at room temp. for 2 yrs. Also at 54°C for 2 weeks only 4.4% wt. loss.	A	"
830.6310	Miscibility	No petroleum distillate will be used for dilution	A	"
830.6320	Corrosion characteristics	No physical change/no signs of corrosion/no leaks after 2 weeks of storage in HDPE Pkg.	A	"
830.7000	pH	7.95	A	"
830.7100	Viscosity	Temp 20°C 40°C Share rate around- 2 1066 1562 -950 29.1 24.6 [See page 5]	A	"
830.7300	Density	1.251 g/cm <sup>3</sup>	A	"
830.7520	Particle size	NA / Product does not contain particles or fibres	NA	

A = Acceptable, N = Not Acceptable, G = Data Gap, W = Waiver request, NA = Not applicable,  
I = In progress

DP BAR CODE NO.: 436491  
PC Code: 129098  
FOOD Use: NO

EPA File Symbol NO.: 228-TGT  
ACTION CODE: R333.2

DECISION NO.: 514939

### Viscosity Test results (830.7100) for EPS File Symbol No. 228-TGT

#### 5.3.7. Dynamic viscosity

Date of determination : January 20, 2009.

Remark : for this determination at  $t_{24}$ , the shear rate was from 2 to 1000  $s^{-1}$  instead of 200  $s^{-1}$  for and the determination after 12 months of storage, this difference has no incidence on the CA2386 behaviour. *Complete Viscosity data: MRID: 496085-02*

Table 33 : Results for dynamic viscosity of the test item at  $t_{24}$

Temperature	20°C	40°C
Share rate around [1/s]	$\eta$ [mPa * s]	$\eta$ [mPa * s]
2	1066	1562
50	180.3	157.3
100	86.0	88.1
150	67.8	66.7
200	56.7	53.3
300	46.9	42.0
400	41.5	37.0
450	39.0	34.9
500	37.2	32.6
600	34.7	29.8
650	33.3	29.0
700	32.5	28.1
800	30.9	26.6
900	29.7	25.2
950	29.1	24.6

*Page 98*  
*EPA File Symbol*  
*No: 228-TGT*

✓ The test item had a no newtonian flow behaviour, the dynamic viscosity depended on the shear rate applied to the sample. At 40°C, the dynamic viscosity was slightly lower than this observed at 20 °C (see curves in Appendix III).

DP BAR CODE NO.: 436491  
PC Code: 129098  
FOOD Use: NO

EPA File Symbol NO.: 228-TGT  
ACTION CODE: R333.2

DECISION NO.: 514939

**CONCLUSIONS:**

CITAB has reviewed the product chemistry data submitted/cited for the end-use product and has concluded that:

**A. Substantial similarity to the cited product (Reg. No. ....) from Product chemistry view point**

- ☐ Similar
- ☐ Not similar, give reasons
- ☐ Identical
- ☐ Not identical
- ☒ Not applicable

**B. Confidential Statement of formula**

1. Basic CSF (dated: 09/20/16)
- ☒ Acceptable
  - ☐ Not Acceptable
  - ☐ Not Applicable
- If not acceptable provide the reasons

2. Alternate CSF A (dated: )
- ☒ Acceptable - # 1
  - ☐ Not Acceptable - # , #
  - ☐ Not Applicable
- If not acceptable give reasons

**C. Group A Product Chemistry Data**

- ☒ Acceptable
- ☐ Not acceptable
- ☐ Acceptable with the exception of Guideline(s): (provide the guideline number & explain)
- ☐ Not required
- ☐ Data cited

**D. Group B Product chemistry data**

- ☒ Acceptable
- ☐ Not acceptable
- ☐ Acceptable with the exception of Guideline(s):
- ☐ Not required
- ☐ Data cited

**E. Product Label/Draft Label**

Recommendations – Yes ☒; No ☐

If yes, give recommendations below: The label should contain a statement: "Combustible. Do not use or store near heat or open flame".



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

October 26, 2016

Carrie Tackema  
Regulatory Manager  
Nufarm  
4020 Aerial Center Parkway, Suite 101  
Morrisville, NC 27560

Subject: 75-Day Data Deficiency Letter  
Product Name: NUP-15013 Fungicide  
EPA File Symbol: 228-TGT  
Application Date: March 2, 2016  
EPA Receipt Date: March 2, 2016

Dear Ms. Tackema:

The Agency has received and begun its in-depth review of the subject application and has determined that it is incomplete or that further information is needed. This letter is a written notification of those deficiencies and identifies your options under 40 CFR 152.105 and Section 33 of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended by the Pesticide Registration Improvement Extension Act (PRIA 3). Your options under 40 CFR 152.105 and section 33 of FIFRA are addressed separately because each involves a different timeframe and set of options for responding to this letter. Please ensure that you consider each of the sections below in determining how and when you respond to this letter.

40 CFR 152.105:

Pursuant to 40 CFR 152.105, you are allowed 75 days from the date of this letter ending **12/24/2016 (due to the 1/24/17 PRIA Date)** to provide a response concerning the deficiencies listed in this letter. Your response may include making corrections or additions to complete the application, or notifying the Agency of the date on which you expect to complete the application, or withdrawing your application. If you do not respond to this letter within 75 days or if you respond with a date on which you expect to complete the application but fail to meet that scheduled date, the Agency will treat the application as if you had withdrawn it. Withdrawal concludes the Agency's review of your application. Any subsequent submission of the same application must then be submitted as a new application with a new deadline for EPA to make a determination on your application and subject to a new registration service fee.

The deficiencies identified in the Agency's review at this time are:

1. You must submit the oxidation / reduction data corresponding to 830.6314. The cited data is from a technical and is not acceptable because of compositional differences. Product specific data is required.

Further review of your application and your response to the deficiencies may identify additional deficiencies and you will be so informed.

FIFRA Section 33/PRIA:

This application is also subject to a deadline for making a determination on the application under FIFRA Section 33, Pesticide Registration Service Fees, established under PRIA. The time frame for the Agency to make a determination on this application ends on **1/24/2017**. Because the deadline for the agency to make a determination on this application expires before the end of the 75 days, in order to respond to the deficiencies noted above, you have the following three options:

1. **Establish a new due date.** You may work with us to establish a new section 33/PRIA deadline that allows for an appropriate response to the 75 day letter. If you choose this option, you need to contact the Agency not later than **12/24/2016** to discuss a time frame that allows you to address the deficiencies listed above and the Agency to make a regulatory decision.
2. **Withdraw the application.** Alternatively, you may notify us not later than **12/24/2016** that you are withdrawing your application. **As noted above, withdrawal concludes the Agency's review** of your application; however, you may resubmit your application after the deficiencies have been addressed. Should you choose to resubmit your application, it would be subject to a new deadline for making a determination on your application and a new registration service fee. Since a fee was paid with this application, the Agency will provide any applicable refund as soon as practicable.
3. **Not respond.** If the Agency does not hear from you by **12/24/2016**, the Agency in meeting its obligations under section 33/PRIA may issue a determination to not grant your application. While a determination to not grant an application would allow EPA to have met its obligation under section 33 of FIFRA to issue a determination by a specified date, this determination is neither a denial of the application pursuant to section 3(c)(6) of FIFRA or a withdrawal of the application. Thus, the Agency will continue to diligently work on any such application as long as EPA receives a response to a deficiency notice within the 75 days described above.

Please respond to this letter by **12/24/2016** by contacting Erik Kraft by telephone number on (703) 308-9358 or by email at [kraft.erik@epa.gov](mailto:kraft.erik@epa.gov) with a response and for any questions concerning this letter. When submitting information or data in response to this letter, a copy of this letter should accompany the submission to facilitate processing.



Sincerely,

A handwritten signature in black ink, appearing to read "Erik Kraft", written in a cursive style.

Erik Kraft, Acting Product Manager 24  
Fungicide and Herbicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND  
POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS  
REGISTRATION DIVISION (7505P)

30/AUG/2016

MEMORANDUM

Subject: Acute Toxicity Review for EPA File Symbol 228-TGT

Name of Pesticide Product: NUP-15013 Fungicide  
EPA Reg. No.: 228-TGT  
DP Barcode: D432894  
Decision No.: 514939  
Action Code: R333.2  
PC Code: 129098 (fluazinam)

From: Eugenia McAndrew, Biologist *Eugenia McAndrew*

Through: Masih Hashim, Ph.D., Team Leader Toxicology  
Chemistry, Inerts and Toxicology Assessment Branch *M. Hashim*  
Registration Division (7505P)

To: Erik Kraft, Risk Manager Team 24  
Fungicide and Herbicide Branch  
Registration Division (7505P)

Applicant: Nufarm Americas, Inc.  
4020 Aerial Center Parkway  
Morrisville, NC 27560

FORMULATION FROM LABEL:

<u>Active Ingredient(s):</u>	<u>% by wt.</u>
Fluazinam	40.0
<u>Other Ingredient(s):</u>	60.0
Total:	100.00

**ACTION REQUESTED:** The Risk Manager requests a review of acute toxicity data submitted to support the registration of EPA File Symbol 228-TGT.

**BACKGROUND:** Nufarm Americas, Inc. has submitted six acute toxicity studies (MRIDs 496085-03 to -08) to support the registration of NUP-15013 Fungicide, EPA File Symbol 228-TGT. The submission also includes a label, a basic CSF dated January 12, 2016 and a company letter. The product chemists in the Chemistry, Inerts and Toxicology Assessment Branch must review and accept the basic CSF.

**GLP:** Yes

**DEVIATIONS:** None

**LABELING:** Based on the toxicity profile, the following are the precautionary and first aid statements for this product as obtained from the Label Review System:

**PRODUCT ID #:** 000228-00737

**PRODUCT NAME:** NUP-15013 Fungicide

#### **PRECAUTIONARY STATEMENTS**

**SIGNAL WORD:** CAUTION

#### **Hazards to Humans and Domestic Animals:**

Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear: Long-sleeved shirt and long pants, socks, shoes, and waterproof gloves.

#### **First Aid:**

If on skin:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

If inhaled:

- Move the person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

**User Safety Recommendations:**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change clothing.

## DATA EVALUATION RECORD

**Product Reg. No.:** 228-TGT

**Product Name:** NUP-15013 Fungicide

**1. DP BARCODE:** 432894

**2. PC CODE:** 129098

**3. CURRENT DATE:** August 30, 2016

**4. TEST MATERIAL:** Fluazinam 500 SC (CA 2386) (Batch # RD-877-068D; purity 517.3 g/L; density 1.27 g/cm<sup>3</sup> g/mL; pH 8.08; yellow to orange liquid)

Study/Species/Lab Study # /Date	MRID	Results	Tox Cat	Core Grade
Acute oral toxicity / rat RCC Ltd, Switzerland Study # B59760/January 18, 2008 OCSPP 870.1100; OECD 423	49608503	LD <sub>50</sub> Females > 2000 mg/kg  Two groups of three females each were tested at 2000 mg/kg.  Purified water was added to the test material to create a formulation for dosing.  All animals survived and gained body weight. Clinical signs of toxicity observed were soft feces and ruffled fur in all animals with recovery by day 4. No macroscopic findings were noted at necropsy.	III	A
Acute dermal toxicity / rat RCC Ltd, Switzerland Study # B59771/January 18, 2008 OCSPP 870.1200; OECD 402	49608504	LD <sub>50</sub> > 2000 mg/kg (both sexes)  All animals survived and gained weight. There were no clinical signs of toxicity. Yellow staining and dermal irritation were noted at all dose sites. Erythema was observed at all sites between days 2 and 11, scaling was observed at all sites between days 5 and 15 and crusts were observed at two male and three female sites between days 5 and 15. No macroscopic findings were noted at necropsy.	III	A

Acute inhalation toxicity/rat RCC Ltd, Switzerland Study # B59815/May 8, 2008 OCSPP 870.1200; OECD 403	49608505	LC <sub>50</sub> > 0.967 mg/L (both sexes)  MMAD - 3.00 µm, 2.96 µm GSD - 2.54, 2.52  All animals survived. Four males lost weight by day 8 but all animals gained weight by study termination. No clinical signs of toxicity were observed. No macroscopic findings were noted at necropsy.	III	A
Primary eye irritation / rabbit RCC Ltd, Switzerland Study # B59793/January 18, 2008 OCSPP 870.1300; OECD 405	49608506	1 male and two females tested  No corneal opacity, iritis or positive scores for conjunctivitis were observed. The only irritation noted was a score of 1 for conjunctival redness in the two female eyes at one hour only. All eyes were free of irritation by 24 hours.	IV	A
Primary dermal irritation / rabbit/RCC Ltd, Switzerland Study # B59782/January 18, 2008 OCSPP 870.2500; OECD 404	49608507	PDI = 1.5 1 male and 2 females tested  The study report states that it was not possible to assess the findings one hour after exposure to the test article due to yellow staining.  Well defined erythema was noted at all dose sites 24, 48 and 72 hours after patch removal. No edema was noted. All sites were free of dermal irritation on day 7.	IV	A
Dermal sensitization/guinea pig/RCC Ltd, Switzerland Study # B59804/January 28, 2008 OCSPP 870.2600; OECD 406	49608508	This product <i>is positive</i> for sensitization.  Results of positive control study are acceptable.	--	A

**Core Grade Key:** A =Acceptable, S = Supplementary, U = Unacceptable, D = Data Gap  
W = Waived



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460


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**DATA MATRIX**

Date March 2, 2016	EPA Reg. No./File Symbol 228-	Page 1 of 7
Nufarm Americas, Inc. 4020 Aerial Center Parkway Morrisville, NC 27560	Product: NUP-15013 Fungicide	
Ingredient: Fluazinam (PC Code 129098)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter (EPA CO#)	Status	Note
<b>SERIES 830</b>	<b>SUBDIVISION D: PRODUCT PROPERTIES TEST GUIDELINES</b>				
	<b>Series 61 Data Requirements</b>				
830.1550 / 61-1	Product Identity and Composition	49608501	NUFARM	OWN	
830.1600 / 61-2	Description of the Materials Used to Produce the Product	49608501	NUFARM	OWN	
830.1650 / 61-2	Description of the Production Process	49608501	NUFARM	OWN	
830.1670 / 61-3	Discussion of Formation of Impurities	49608501	NUFARM	OWN	
	<b>Series 62 Data Requirements</b>				
830.1700 / 62-1	Preliminary Analysis	49608501	NUFARM	OWN	
830.1750 / 62-2	Certified Limits	49608501	NUFARM	OWN	
830.1800 / 62-3	Enforcement Analytical Method	49608501	NUFARM	OWN	
	<b>Series 63 (Phys/Chem Properties) Data Requirements</b>				
830.6302 / 63-2	Color	49608502	NUFARM	OWN	
830.6303 / 63-3	Physical State	49608502	NUFARM	OWN	
830.6304 / 64-4	Odor	49608502	NUFARM	OWN	
830.6313 / 63-13	Stability to normal / elevated temperatures, metals and metal ions	49608502	NUFARM	OWN	
830.6315 / 63-15	Flammability	49608502	NUFARM	OWN	
830.6320 / 63-20	Corrosion Characteristics	49608502	NUFARM	OWN	
830.7100 / 63-18	Viscosity	49608502	NUFARM	OWN	

Signature 	Name and Title: Carrie M. Tackema, Regulatory Manager	Date 03/02/2016
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**DATA MATRIX**

Date	March 2, 2016	EPA Reg. No./File Symbol	228-	Page 2 of 7
Nufarm Americas, Inc. 4020 Aerial Center Parkway Morrisville, NC 27560		Product: NUP-15013 Fungicide		
Ingredient: Fluazinam (PC Code 129098)				

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter (EPA CO#)	Status	Note
<b>SERIES 830</b>	<b>SUBDIVISION D: PRODUCT PROPERTIES TEST GUIDELINES</b>				
830.7300 / 63-7	Density, Bulk Density, Specific Gravity	49608502	NUFARM	OWN	
830.7000 / 63-12	pH	49608502	NUFARM	OWN	
<b>SERIES 835</b>	<b>SUBDIVISION N: ENVIRONMENTAL FATE TEST GUIDELINES</b>				
	<b>Degradation Data Requirements</b>				
835.2120 / 161-1	Hydrolysis	42208412	71512	OLD	
835.2240 / 161-2	Aqueous Photolysis	44807312	71512	OLD	
835.2240 / 161-2	Aqueous Photolysis	43521009	71512	OLD	
835.2240 / 161-2	Aqueous Photolysis	45584204	71512	OLD	
835.2410 / 161-3	Soil Photolysis	42208413	71512	OLD	
835.2410 / 161-3	Soil Photolysis	44807313	71512	OLD	
835.2410 / 161-3	Soil Photolysis	45584204	71512	OLD	
	<b>Metabolism Data Requirements</b>				
835.4100 / 162-1	Aerobic Soil Metabolism	42208413	71512	OLD	
835.4100 / 162-1	Aerobic Soil Metabolism	42208414	71512	OLD	
835.4200 / 162-3	Anaerobic Soil Metabolism	42208413	71512	OLD	
835.4200 / 162-3	Anaerobic Soil Metabolism	42208414	71512	OLD	

Signature 	Name and Title: Carrie M. Tackema, Regulatory Manager	Date 03/02/2016
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**DATA MATRIX**

Date March 2, 2016	EPA Reg. No./File Symbol 228-	Page 3 of 7
Nufarm Americas, Inc. 4020 Aerial Center Parkway Morrisville, NC 27560	Product: NUP-15013 Fungicide	
Ingredient: Fluazinam (PC Code 129098)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter (EPA CO#)	Status	Note
<b>SERIES 830</b>	<b>SUBDIVISION D: PRODUCT PROPERTIES TEST GUIDELINES</b>				
835.4300 / 162-4	Aerobic Aquatic Metabolism	44807314	71512	OLD	
835.4400 / 162-3	Anaerobic Aquatic Metabolism	43521010	71512	OLD	
	<b>Mobility Data Requirements</b>				
835.1230 / 163-1	Adsorption/Desorption	42248628	71512	OLD	
835.1230 / 163-1	Adsorption/Desorption	42974913	71512	OLD	
835.1230 / 163-1	Adsorption/Desorption	43528201	71512	OLD	
835.1230 / 163-1	Adsorption/Desorption	44807315	71512	OLD	
835.1240	Leaching Studies	42208415	71512	OLD	
	<b>Dissipation Data Requirements</b>				
835.6100 / 164-1	Terrestrial Field Dissipation (Turf)	48361521	71512	PAY	
835.6100 / 164-1	Terrestrial Field Dissipation (Turf)	48361522	71512	PAY	
835.6100 / 164-1	Terrestrial Field Dissipation (Turf)	48361523	71512	PAY	
835.6100 / 164-1	Environmental Chemistry Methods & ILV (Soil, Water, Sediment)	48361519	71512	PAY	
835.6100 / 164-1	Environmental Chemistry Methods & ILV (Soil, Water, Sediment)	48361520	71512	PAY	
835.6100 / 164-1	Environmental Chemistry Methods & ILV (Soil, Water, Sediment)	48632401	71512	PAY	
835.6100 / 164-1	Environmental Chemistry Methods & ILV (Soil, Water, Sediment)	48635801	71512	PAY	
835.6100 / 164-1	Environmental Chemistry Methods & ILV (Soil, Water, Sediment)	48635802	71512	PAY	

Signature

Name and Title:

Carrie M. Tackema, Regulatory Manager

Date

03/02/2016



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**DATA MATRIX**

Date March 2, 2016	EPA Reg. No./File Symbol 228-	Page 4 of 7
Nufarm Americas, Inc. 4020 Aerial Center Parkway Morrisville, NC 27560	Product: NUP-15013 Fungicide	
Ingredient: Fluazinam (PC Code 129098)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter (EPA CO#)	Status	Note
SERIES 850	SUBDIVISION E: ECOLOGICAL EFFECTS TEST GUIDELINES				
	Aquatic Organism Toxicity Data Requirements				
850.1075 / 72-1(a)	TGAI- Freshwater Fish LC <sub>50</sub> (Bluegill)	42974905	71512	OLD	
850.1075 / 72-1(c)	TGAI- Freshwater Fish LC <sub>50</sub> (Rainbow Trout)	42974904	71512	OLD	
850.1010 / 72-1	TGAI- Acute LC <sub>50</sub> Invertebrate (Daphnia)	42208410	71512	OLD	
850.1075 / 72-3(a)	TGAI- Acute LC <sub>50</sub> Estuarine Organism (Sheepshead Minnow)	44807326	71512	OLD	
850.1025 / 72-3(b)	TGAI- Acute LC <sub>50</sub> Estuarine Organism (Eastern Oyster)	44807324	71512	OLD	
	Nontarget Plant Toxicity Data Requirements				
850.4100 / 122-1(a)	TGAI- Seedling Emergence	46172801	71512	PAY	
850.4150 / 122-1(b)	TGAI- Vegetative Vigor	48708701	71512	PAY	
850.4400 / 123-2	TGAI- Aquatic Plant Toxicity Test (Lemna)	48571402	71512	PAY	
850.4500	TGAI – Algal Toxicity (Selenastrum)	44807334	71512	OLD	
850.4500	TGAI – Algal Toxicity (Skeletonema)	48612301	71512	PAY	

Signature 	Name and Title: Carrie M. Tackema, Regulatory Manager	Date 03/02/2016
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**DATA MATRIX**

Date March 2, 2016	EPA Reg. No./File Symbol 228-	Page 5 of 7
Nufarm Americas, Inc. 4020 Aerial Center Parkway Morrisville, NC 27560	Product: NUP-15013 Fungicide	
Ingredient: Fluazinam (PC Code 129098)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter (EPA CO#)	Status	Note
<b>SERIES 860</b>	<b>SUBDIVISION O: RESIDUE CHEMISTRY TEST GUIDELINES</b>				
860.1380 / 171-4e	Storage Stability Data- Soils	44807316	71512	OLD	
860.1380 / 171-4e	Storage Stability Data- Soils	48361518	71512	PAY	
<b>SERIES 870</b>	<b>SUBDIVISION F: HEALTH EFFECTS TEST GUIDELINES</b>				
	<b>Acute Toxicity Data Requirements</b>				
870.1100 / 81-1	TGAI- Acute Oral Toxicity (RAT)	496080503	NUFARM	OWN	
870.1200 / 81-2	TGAI- Acute Dermal Toxicity	496080504	NUFARM	OWN	
870.1300 / 81-3	TGAI- Acute Inhalation Toxicity	496080505	NUFARM	OWN	
870.2400 / 81-4	TGAI- Primary Eye Irritation	49608506	NUFARM	OWN	
870.2500 / 81-5	TGAI- Primary Skin Irritation	49608507	NUFARM	OWN	
870.2600 / 81-6	TGAI- Skin Sensitization	49608508	NUFARM	OWN	

Signature 	Name and Title: Carrie M. Tackema, Regulatory Manager	Date 03/02/2016
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Date March 2, 2016	EPA Reg. No./File Symbol 228-	Page 6 of 7
Nufarm Americas, Inc. 4020 Aerial Center Parkway Morrisville, NC 27560	Product: NUP-15013 Fungicide	
Ingredient: Fluazinam (PC Code 129098)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter (EPA Co. #)	Status	Note
<b>SERIES 875</b>	<b>APPLICATOR &amp; POST-APPLICATION EXPOSURE DATA REQUIREMENTS</b>				
875.1100	Applicator Dermal Exposure – Outdoor	CITE ALL		OWN	Footnote 1
875.1200	Applicator Dermal Exposure – Indoor	CITE ALL		OWN	Footnote 1
875.1300	Applicator Inhalation – Outdoor	CITE ALL		OWN	Footnote 1
875.1400	Applicator Inhalation Exposure – Indoor	CITE ALL		OWN	Footnote 1
875.2100	Foliar Dislodgeable Residue Dissipation (Turf)	48361527	71512	PAY	
875.2400	Post-Application Dermal Exposure	CITE ALL		OWN	Footnote 1
875.2500	Post-Application Inhalation Exposure	CITE ALL		OWN	Footnote 1

**FOOTNOTES**

1. Nufarm is a member of the Spray Drift Task Force, Outdoor Residential Exposure Task Force, Agricultural Reentry Task Force, and Agricultural Handlers Exposure Task Force.

Signature

Name and Title:

Carrie M. Tackema, Regulatory Manager

Date

03/02/2016



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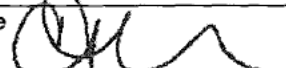
**DATA MATRIX**

Date March 2, 2016	EPA Reg. No./File Symbol 228-	Page 7 of 7
Nufarm Americas, Inc. 4020 Aerial Center Parkway Morrisville, NC 27560	Product: NUP-15013 Fungicide	
Ingredient: Fluazinam (PC Code 129098)		

**ALL REMAINING DATA REQUIREMENTS**

**List of Companies OTP:**

ISK (EPA Co. # 71512)

Signature 	Name and Title: Carrie M. Tackema, Regulatory Manager	Date 03/02/2016
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United States  
Environmental Protection Agency  
Washington, DC 20460

☒ **Registration**  
☐ **Amendment**  
☐ **Other:**

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number <b>228-___ (not yet assigned)</b>	2. EPA Product Manager <b>H. Garvie</b>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>NUP-15013 Fungicide</b>	PM# <b>24</b>	
5. Name and Address of Applicant (Include ZIP Code) <b>Nufarm Americas Inc. 4020 Aerial Center Parkway, Suite 101 Morrisville, NC 27560</b> <b><i>Please send all correspondence to "contact point" listed below</i></b>		6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No.: <b>71512-20; 71512-20-100</b> Product Name: <b>Fluazinam Turf Fungicide; Secure Fungicide</b>

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input checked="" type="checkbox"/> "Me Too" Application
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

### Application for Registration under Primary/Secondary PRIA CATEGORY: R333.2

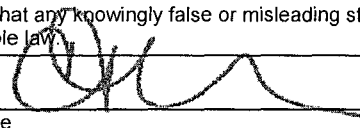
#### CONTACT

**INFORMATION:** Carrie M. Tackema  
(919) 467-5923 fax; [carrie.tackema@us.nufarm.com](mailto:carrie.tackema@us.nufarm.com)

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other	
* <b>Certification must be submitted</b>		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container <b>1 gal - bulk</b>		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Other - crack and peel <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)		
Name <b>Carrie M. Tackema</b>	Title <b>Regulatory Manager</b>	Telephone No. (Include Area Code) <b>919-379-2528</b>
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. 		6. Date Application Received (Stamped)
2. Signature	3. Title <b>Regulatory Manager</b>	
4. Typed Name <b>Carrie M. Tackema</b>	4. Date <b>March 2, 2016</b>	

DOCUMENTUM





United States Environmental Protection Agency  
Washington, D.C. 20460**Formulator's Exemption Statement**  
(40 CFR 152.85)

Applicant's Name and Address <b>Nufarm Americas Inc.</b> 4020 Aerial Center Parkway, Suite 101 Morrisville, NC 27560	EPA File Symbol/Registration Number <b>228-xxx</b>
	Product Name <b>NUP-15013 Fungicide)</b>
	Date of Confidential Statement of Formula (EPA Form 8570-4) <b>January 12, 2016</b>

As an authorized representative of the applicant for registration of the product identified above, I here certify that:

(1) This product contains the following active ingredient(s):

**Fluazinam (PC code 129098)**

(2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging of another product which contains that active ingredient, which is registered under FIFRA Section 3, is purchased by us from another producer, and is labeled for at least each use for which my product is proposed to be labeled.

(3) Indicate by checking (A) or (B) below which paragraph applies:



(A) An accurate Confidential Statement of Formula (EPA Form 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

**OR**

(B) The Confidential Statement of Formula (CSF) (EPA Form 8570-4) referenced above and on file with the EPA is complete, current, and accurate and contains the information required on the current CSF.

(4) The following active ingredients in this product qualify for the formulator's exemption.

Source		
Active Ingredient	Product Name	Registration Number
Fluazinam		

\*Product ingredient source information may be entitled to confidential treatment\*

Signature 	Name and Title <b>Carrie M. Tackema Regulatory Manager</b>	Date <b>March 2, 2016</b>
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WASHINGTON, D.C. 20460**

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**Certification with Respect to Citation of Data**

Applicant's/Registrant's Name, Address and Telephone Number <b>Nufarm Americas, Inc. 4020 Aerial Center Parkway, Suite 101 Morrisville, NC 27560</b>	EPA Registration Number/ File Symbol <b>228-</b>
Active Ingredient(s) and/or representative test compound(s): <b>Fluazinam (PC code 129098)</b>	Date <b>March 2, 2016</b>
General use pattern(s) (list all those claimed for this product using 40 CFR Part 158) <b>Terrestrial nonfood; Terrestrial noncrop</b>	Product Name <b>NUP-15013 Fungicide</b>

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT (Check one method only)**

- |  |   |
|--|---|
| <input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). | <input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used). |
|--|---|

**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☒ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

**SECTION III: CERTIFICATION**

I certify that this application for registration, this form for reregistration, or this Data Call-In Notice is supported by all data submitted or cited in the application for registration, the form for reregistration, or this Data Call-In response. In addition, if cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original submitter or that I have obtained the written permission of the original submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the written permission of the original data submitter to use this study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

**I certify that the statements I have made on this form and all attachments to it are true, accurate and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.**

Signature 	Date <b>March 2, 2016</b>	Typed or Printed Name and Title <b>Carrie M. Tackema, Regulatory Manager</b>
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# PRIA 3 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)


September 2012

21 Day Screen Start Date: 3/2/16

Experts In-Processing Signature: MP Date 3/15/16 Fee Paid: Yes     

Division management contacted on issues No      Yes      Date     

EPA Reg. Number: <u>228-TGT</u>		EPA Receipt Date: <u>3/2/16</u>				
Items for Review				Yes	No	N/A*
1	Application Form (EPA Form 8570-1) signed & complete including package type			X		
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4)			X		
	a) All <u>inerts</u> , including fragrances, approved for the proposed uses (see Footnote A)	yes	no			
		X				
3	Certification with Respect to Citation of Data (EPA Form 8570-34) completed and signed (N/A if 100% repack)			X		
	Certificate and data matrix consistent			X		
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)	yes	no			
		X				
	If applicable, is there a letter of Authorization for exclusive use only.					
4	Formulator's Exemption Statement (EPA Form 8570-27) completed and signed (N/A if source is unregistered or applicant owns the technical)			X		
	Data Matrix (EPA Form 8570-35) both internal and external copies (PR 98-5) completed and signed (N/A if 100% repack)			X		
5	a) Selective Method (Fee category experts use)	yes	no			
		X				
	b) Cite-All (Fee category experts use)					
	c) Applicant owns all data (Fee category experts use)					
6	5 Copies of <u>Label</u> (Electronic labels on CD are encouraged and guidance is available)			X		
7	Is the data package consistent with PR Notice 86-5			X		
8	Notice of Filing included with petitions					X

9	If applicable for conventional applications, <u>reduced risk rationale</u>			
10	<u>Required Data</u> and/or data waivers. See Footnote C.			
	a) List study (or studies) not included with application			
<p>Comments:</p> <p></p> <p>Documentation <u>Pass</u> or Fail - All Required forms Complete</p> <p>Inerts: <u>Pass</u> or Fail - Inerts Approved for Non-feed Use</p> <p>PKN 1163: <u>Pass</u> or Fail - NRID: 496685</p> <p>3/15/16</p> <p>Overall Status: <u>Pass</u> or Fail</p>				

\* N/A – Not Applicable

#### Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses or have an application pending with the Agency. If an unapproved inert with no application pending with the Agency is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses or have an application pending with the Agency **even if a product is currently registered** by consulting the inert Web site and if the inert is not approved nor has an application pending with the Agency, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient**. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at [inertsbranch@epa.gov](mailto:inertsbranch@epa.gov) and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the Chief of Microbial Pesticides Branch.

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

### **Unapproved Inerts Identified on CSFs**

#### **All applications except conventional new products and PIPs**

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Provide the required information necessary to identify an inert approval application that is pending with the Agency; or
3. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;
4. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

#### **Conventional New Product Applications**

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R300 or R301), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

### PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.
3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

March 14, 2016

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

OPP Decision Number: D-514939  
EPA File Symbol or Registration Number: 228-TGT  
Product Name: NUP-15013 Fungicide  
EPA Receipt Date: 02-Mar-2016  
EPA Company Number: 228  
Company Name: NUFARM AMERICAS, INC.

CARRIE M. TACKEMA  
NUFARM AMERICAS, INC.  
4020 AERIAL CENTER PKWY., STE. 101  
MORRISVILLE, NC 27560-

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your application and certification of payment. If you submitted data with this application, the results of the PRN-2011-3 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R333

NEW PRODUCT;MUP OR END USE PRODUCT WITH UNREGISTERED SOURCE OF THE ACTIVE INGREDIENT;REQUIRES SCIENCE DATA REVIEW;NEW PHYSICAL FORM;CITE-ALL OR SELECTIVE DATA CITATION WHERE APPLICANT OWNS ALL REQUIRED DATA;REDUCED FEE: ASSOCIATED WITH ANOTHER PRIA ACTION;

No additional payment is due at this time. If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-9362.

Sincerely,

A handwritten signature in black ink, appearing to be "M. J. [unclear]", is written over the word "Sincerely,".

Front End Processing Staff  
Information Technology & Resources Management Division

**Fee for Service**

W  
{982242É~

This package includes the following

- ☒ New Registration
- ☐ Amendment

- ☒ Studies?    ☐ Fee Waiver?
- ☐ volpay    % Reduction: \_\_\_\_

for Division

- ☐ AD
- ☐ BPPD
- ☒ RD

Risk Mgr. 24

Receipt No.

S- 982242

EPA File Symbol/Reg. No.

228-TGT

Pin-Punch Date:

3/2/2016

☐ This item is NOT subject to FFS action.

Action Code:

Requested: R333.2

Granted: R333.2

Amount Due: \$ 5,301

Parent/Child Decisions:

[REDACTED]

☐ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: [Signature]

Date: 3/8/16

Remarks: Sim Clinic -> city 71512-20

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Receipt for Section 3

S: 982242

Milestone Email: carrie.tackema@us.nufarm.com

Regulatory Type: Product Registration - Section 3

Resubmission: ☐ Yes ☒ No

Application Type: New Registration

Fee For Service: ☒ Yes ☐ No

Company: 228 NUFARM AMERICAS, INC.

V

Billable: ☒ Yes ☐ No

Print Letter

Enter More Information

Tracking

Risk Manager: Registration Division, Risk Management Team 24

Product #: 228-TGT Product Name: NUP-15013 Fungicide

Override#

Me Too Section3: 71512-20

Me Too Product Name: FLUAZINAM TURF FUNGICIDE

Application Date: 02-Mar-2016

OPP Rec'd Date: 02-Mar-2016

Front End Date: 03-Mar-2016

Risk Manager Send Date:

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

Portal submission # 10306. Application for registration under Primary/Secondary.

New Ingredient

Request Date:

New Ingredient

Received Date:

Form A: ☐

Signature Date:

Form B: ☐

Signature Date:

Receipt Content

Study

CSF

View/Edit

DOCUMENTUM



**Pay.gov Payment Confirmation : PRIA Service Fees**  
notification to: carrie.tackema

03/02/2016 12:03 PM

Your payment has been submitted to Pay.gov and the details are below. If you have any questions regarding this payment, please contact Michael Yanchulis at (703) 347-0237 or yanchulis.michael@epa.gov.

Application Name: PRIA Service Fees  
Pay.gov Tracking ID: 25Q950PK  
Agency Tracking ID: 74970222634  
Transaction Type: Sale  
Transaction Date: 03/02/2016 12:03:16 PM EST

Account Holder Name: Ann Chellman

Transaction Amount: \$5,301.00  
Card Type: AmericanExpress  
Card Number: \*\*\*\*\*1009

Registration Number:  
Company Name: Nufarm  
Company Number: 228  
Action Code: R333.2

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.

03/02/2016

